PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 10104SG264	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.								
International application No.	International filing date (day/mon	th/year) (Earliest) Priority Date (day/month/year)								
PCT/S/G2004/000413	15 December 2004	15 December 2003								
Applicant NATIONAL UNIVERSITY O	F SINGAPORE et al	•								
This international county amount has been as January Towns and the second secon										
This international search report has been prepared by this International Scarching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.										
This international search report consists of a total of 4 sheets.										
It is also accompanied by a copy of each prior art document cited in this report.										
Hasis of the report										
With regard to the language, the inter- it was filed, unless otherwise indicated	national search was carried out on t I under this item.	he basis of the international application in the language in which								
The international scarce Authority (Rule 23.1(b	h was carried out on the basis of a (ranslation of the international application furnished to this								
b. With regard to any nucleotide a	nd/or amino neid sequence disclos	cd in the international application, see Box No. I.								
2. Certain claims were found uns	carchable (See Box No. 11).	·								
3. Unity of invention is lacking (S	ee Box No. III).									
4. With regard to the title,	•									
X the text is approved as submitted	by the applicant.	•								
the text has been established by t	this Authority to read as follows:	·								
)										
		·								
5. With regard to the abstract,										
X the text is approved as submitted	by the applicant.									
the taxt has been established, acc one month from the date of maili	ording to Rule 38.2(b), by this Aut ng of this international search repo	nority as it appears in Box No. IV. The applicant may, within it, submit comments to this Authority.								
6. With regard to the drawings,										
a. the figure of the drawings to be public	had with the abstract is Figure No.									
as suggested by the appl	licant.									
as selected by this Author	ority, because the applicant failed t	o suggest a figure.								
as selected by this Author	ority, because this figure better cha	racterizes the invention.								
b. X none of the figures is to be publis	hed with the abstract.									

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SG2004/000413

		PC1/SG2004/000413							
A.	CLASSIFICATION OF SUBJECT MATTER								
Int. Cl. ':	C08B 37/16; C07B 53/00, 63/02; B01D 15/08								
According to	International Patent Classification (IPC) or to both national classification and IPC								
В.									
Minimura doca	umentation searched (classification system followed by classification symbols)								
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched									
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Cyclodextrin, beta(w)cyclodextrin cation, mono(w)cation, ammonium, phosphonium, imidazolium, pyridinium, separat, resolution, resolve, enantio, chiral									
C.	C. DOCUMENTS CONSIDERED TO BE RELEVANT								
Category*	Citation of document, with indication, where appropriate, of the relevant passage	Relevant to claim No.							
P,X	US 2004/0106199 A1 (ELISEEV, A V) 3 June 2004	1-3, 7-8, 13							
	See page 2 column 2 paragraph 0011, Scheme 1, "Examples", examples 1-10	nple 4, claims							
x	WO 1997/049735 A1 (QUEEN'S UNIVERSITY AT KINGSTON)	31 1-3, 5-8, 10-							
	December 1997	16, 21-22							
	See pages 2-3 and 5-6, example 1, claims 1-11								
x	TD 4 001 (0) (mon)								
. ^	JP 4-081401 (TOPPAN PRINTING CO LTD) 16 March 1992 See page 2 column 2 compound (4)	1-3, 7-8, 13-							
	& PAJ abstract								
	The demonstration of the demonstration of the Common Commo	itent family annex							
)		TOTAL INITING MILITER							
"A" document	13 is a comment brightness after the averageous now do buouth date and not in								
underlying the invention									
international filing date or cannot be considered to involve an inventive step when the document is taken									
"I." document which may throw doubts on priority claim(s) "Y" document of particular relevance; the claimed invention cannot be considered to my which is cited to establish the publication date of my which is cited to establish the publication date of									
"O" do xument	tation or other special reason (as specified) such documents, such combination being referring to an oral disclosure, use, exhibition	obvious to a person skilled in the art							
or other m "P" document "my lates the	published prior to the international filing date	шу							
	but: later than the priority date claimed Date of the actual completion of the international search Date of mailing of the international search report								
14 February 2	005 2 3 M	2 3 MAR 2005							
Name and mailing address of the ISA/AU Authorized officer AUSTRALIAN PATENT OFFICE									
PO BOX 200, W	O BOX 200, WODEN ACT 2606, AUSTRALIA								
b-mail accress: p Facsimile Vo. (0:	2) 6795 2000	CHRISTINE BREMERS Telephone No: (02) 6283 2313							

INTERNATIONAL SEARCH REPORT

International application No.

DOCUMENTS CONSIDERED TO BE RELEVANT				
on). DOCUMENTS CONSIDERED TO BE RELEVANT				
Citation of document, with indication, where appropriate, of the relevant passages				
Abushoffa, A M et al, "Enhancement of selectivity and resolution in the enantioseparation of uncharged compounds using mixtures of oppositely charged cyclodextrins in capillary electrophoresis", Electrophoresis (2003) vol 24 pages 343-350 See abstract, page 343 column 2 paragraph 3-page 344 column 1 paragraph 1, Fig 1 compound B				
Galaverna, G et al, "Enantiomeric separation of chiral peptide nucleic acid monomers by capillary electrophoresis with charged cyclodextrins", Electrophoresis (2003) vol 24 pages 2698-2703 See abstract, page 2699 column 1 paragraph 3, page 2700 column 2 paragraph 3	1-3, 5, 10-11 13, 26-30			
Yamamura, H et al "Capillary zone electrophoretic chiral discrimination using a cationic cyclodextrin derivative: determination of velocity and association constants of each enantiomer of the amino acid derivative with 6-trimethylammonio-deoxy-β-cyclodextrin", Electrophoresis (2001) vol 22 pages 478-483 See abstract, page 478 column 2 paragraph 1, page 479 compound 1, page 482	1-3, 7-8, 13- 17, 19-22, 26 30			
Christian, A E et al, "Comparison of the capacity of β -cyclodextrin derivatives and cyclophanes to shuttle cholesterol between cells and scrum lipoproteins", Journal of Lipid Research (1999) vol 40 pages 1475-1482 See Fig 1 last three compounds, page 1477 column 2 paragraphs 2, 4 and 5	1-3, 7-8, 13, 16-17, 19-22			
Nair, Usha B et al "Evaluation of two amine-functionalized cyclodextrins as chiral selectors in capillary electrophoresis: comparisons to vancomycin", Microchemical Journal (1997) vol 57 pages 199-217 See abstract, page 200 paragraph 4, page 201 paragraph 1, Fig 1	1-3, 7-8, 13, 26-30			
	Abushoffa, A M et al, "Enhancement of selectivity and resolution in the enantioseparation of uncharged compounds using mixtures of oppositely charged cyclodextrins in capillary electrophoresis", Electrophoresis (2003) vol 24 pages 343-350 See abstract, page 343 column 2 paragraph 3-page 344 column 1 paragraph 1, Fig 1 compound B Galaverna, G et al, "Enantiomeric separation of chiral peptide nucleic acid monomers by capillary electrophoresis with charged cyclodextrins", Electrophoresis (2003) vol 24 pages 2698-2703 See abstract, page 2699 column 1 paragraph 3, page 2700 column 2 paragraph 3 Yamamura, H et al "Capillary zone electrophoretic chiral discrimination using a cationic cyclodextrin derivative: determination of velocity and association constants of each enantiomer of the amino acid derivative with 6-timethylammonio-deoxy-β-cyclodextrin", Electrophoresis (2001) vol 22 pages 478-483 See abstract, page 478 column 2 paragraph 1, page 479 compound 1, page 482 Christian, A E et al, "Comparison of the capacity of β-cyclodextrin derivatives and cyclophanes to shuttle cholesterol between cells and scrum lipoproteins", Journal of Lipid Research (1999) vol 40 pages 1475-1482 See Fig 1 last three compounds, page 1477 column 2 paragraphs 2, 4 and 5 Nair, Usha B et al "Evaluation of two amine-functionalized cyclodextrins as chiral selectors in capillary electrophoresis: comparisons to vancomycin", Microchemical Journal (1997) vol 57 pages 199-217			





Information on patent family members

International application No.

PCT/SG2004/000413

This Amex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

	t Document Cited in Search Report	Patent Family Member					
US	2004106199	wo	2004050709		*************		
wo	9749735	AU	31617/97	ÇA	2257063	US	.5834446
JP	4081401	CA	2063454	EP	0485614	EP	0710672
		EP	0710673	JР	4081402	лъ	6080706
		U\$	5241059	wo	9118022		

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX